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(71) Applicant: **Gore Enterprise Holdings, Inc.**
Newark, DE 19714-9206 (US)

(72) Inventors:
• **Dorros, Gerald**
Scottsdale, AZ 85255 (US)

- **Parodi, Juan Carlos**
Buenos Aires 1428 (AR)
- **Schonholz, Claudio Javier**
Charleston
SC 29425 (US)
- **Hogendijk, Michael**
Palo Alto, CA 94301 (US)
- **Bates, Mark, C.**
Newark
DE 19711 (US)

(74) Representative: **Shanks, Andrew et al**
Marks & Clerk LLP
Aurora
120 Bothwell Street
Glasgow
G2 7JS (GB)

(54) **Apparatus and methods for treating strokes and controlling cerebral flow characteristics**

(57) Apparatus and methods for treatment of stroke are provided. In a preferred embodiment, the present invention disposes at least one catheter having a distal occlusive member in either the common carotid artery (CCA) or both the vertebral artery (VA) and the CCA on the hemisphere of the cerebral occlusion. Blood flow in the opposing carotid and/or vertebral arteries may be inhibited. Retrograde or antegrade flow may be provided through either catheter independently to effectively control cerebral flow characteristics. Under such controlled flow conditions, a thrombectomy device may be used to treat the occlusion, and any emboli generated are directed into the catheter(s).

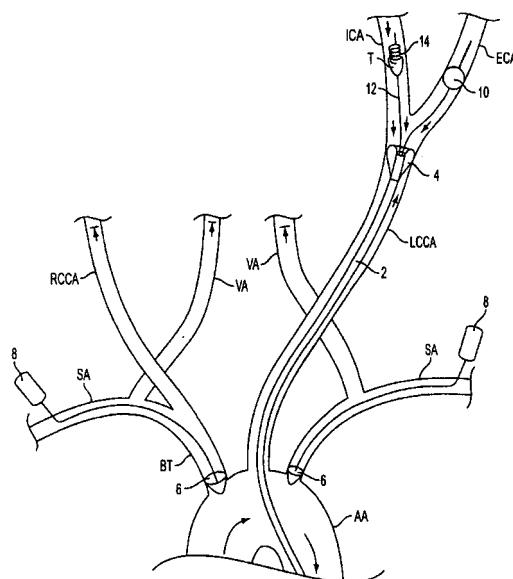


FIG. 2



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Application Number
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Y	* page 14, line 31 - page 15, line 8; compound 7A * * page 11, lines 3-13; figures 2c,2d * * page 12, line 19 - page 13, line 6; figures 5a,5b * * page 15, line 3; figures 2c, 7 * * page 5, line 6 - line 17 * * page 12, line 1 - line 6; figure 2b *	4-6	
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Y	* column 7, line 51 - column 8, line 35; figures 1,2,12 * * column 14, line 50 - column 15, line 16; figure 7 * * line 10 - column 11, line 25; figure 1 * * line 46 - column 13, line 60 * * line 20 - column 8, line 26; figures 2-8, 30-32 * * line 29 - column 7, line 50 *	4-6	
Y	WO 93/16644 A1 (HABLEY MEDICAL TECHNOLOGY CORP [US]) 2 September 1993 (1993-09-02) * abstract * * page 8, line 8 - line 22; figures 2,5,6A,6B,13B * * page 3, line 12 - line 30 *	4,5	TECHNICAL FIELDS SEARCHED (IPC) A61B A61M A61F
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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 22 February 2013	Examiner Béraud, Florent
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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